BMC

v.02.05

User Manual

Version 1.2

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Contents

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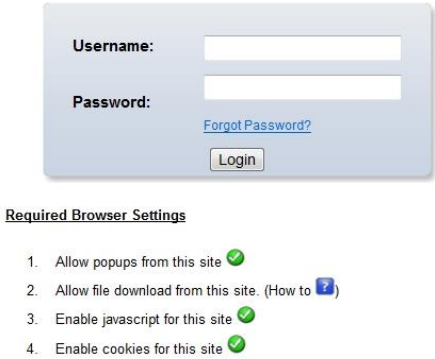
Chapter 1: Overview

The SV300 server is designed with server management chip, so it can be remotely accessed and monitored by using an internet browser. To remotely activate the server and monitor the system status, log on to the specific IP address provided by the supplier(static), or IP assigned by DHCP server(DHCP).

1.1 Login

After entering the IP address of the designated SV300 server, you will immediately be prompted with the BMC login page.



Log in the system with the Username of **[admin]** and Password of **[admin]**, and then click **OK**.

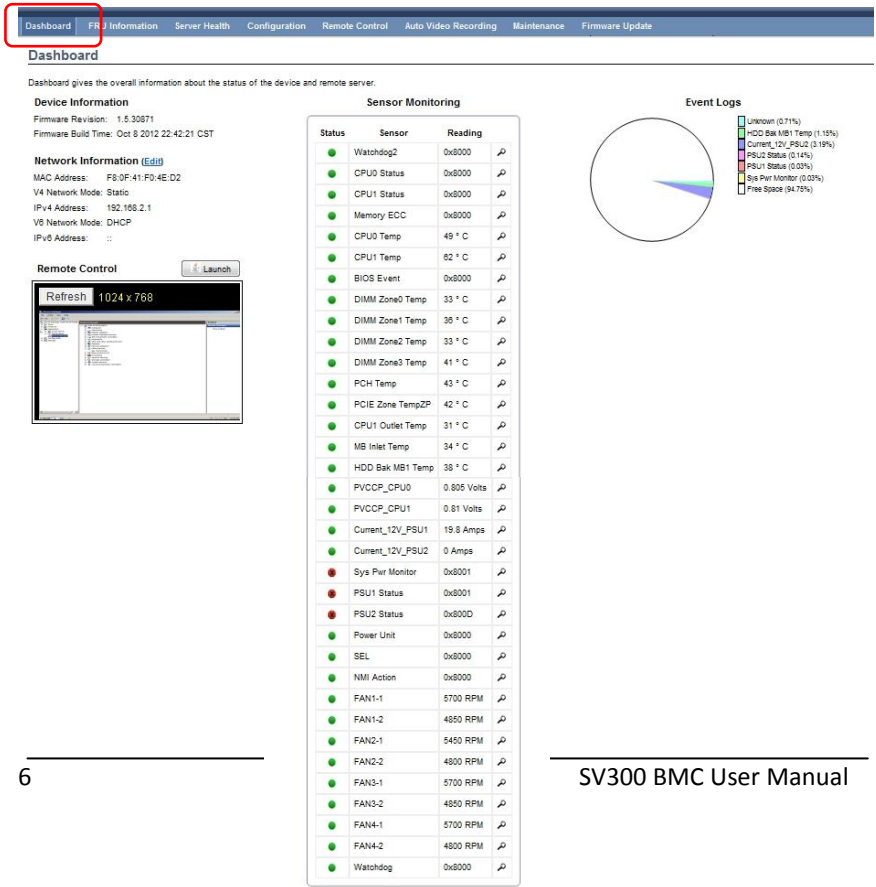
> **Note:**
>
> Please consult with the system provider for the correct username and password

Chapter 2: BMC Monitoring

The monitoring interface consists of 8 major pages. They are Dashboard, FRU Information, Server Health, Configuration, Remote Control, Auto Video Recording, Maintenance and Firmware Update, which will be illustrated in later sections.

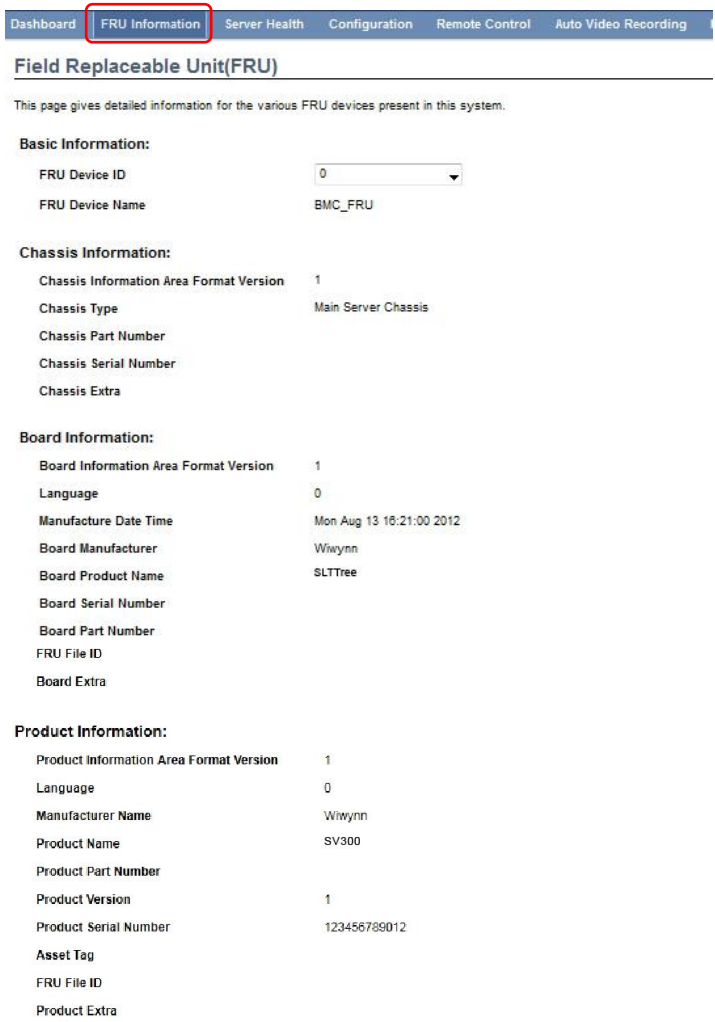
2.1 Dashboard

The first page is the Dashboard page. The dashboard page contains **Device Information**, **Sensor Monitoring, Event Logs**, **Network Information** and **Remote Control**.



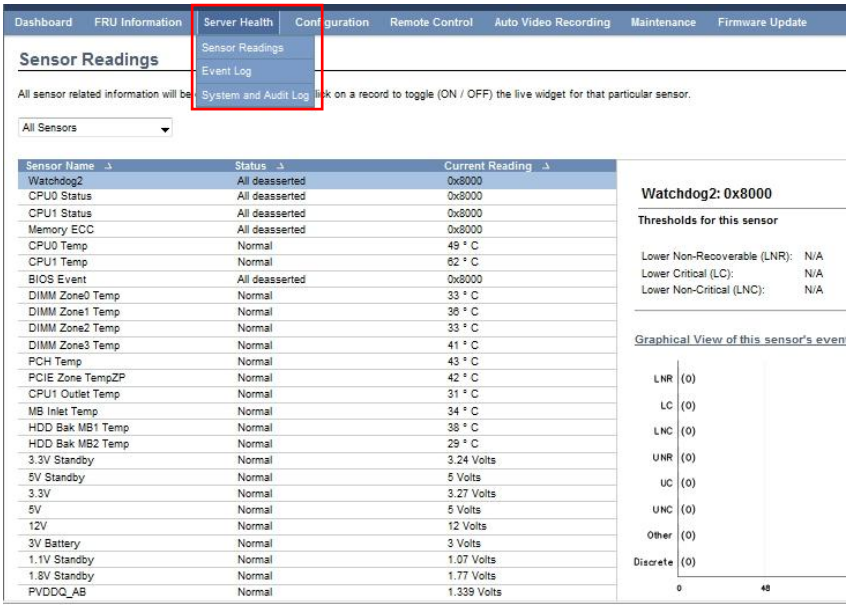
2.2 FRU Information

FRU literally means Field Replaceable Unit. This page gives detailed information of the various FRU sections presented in this system.



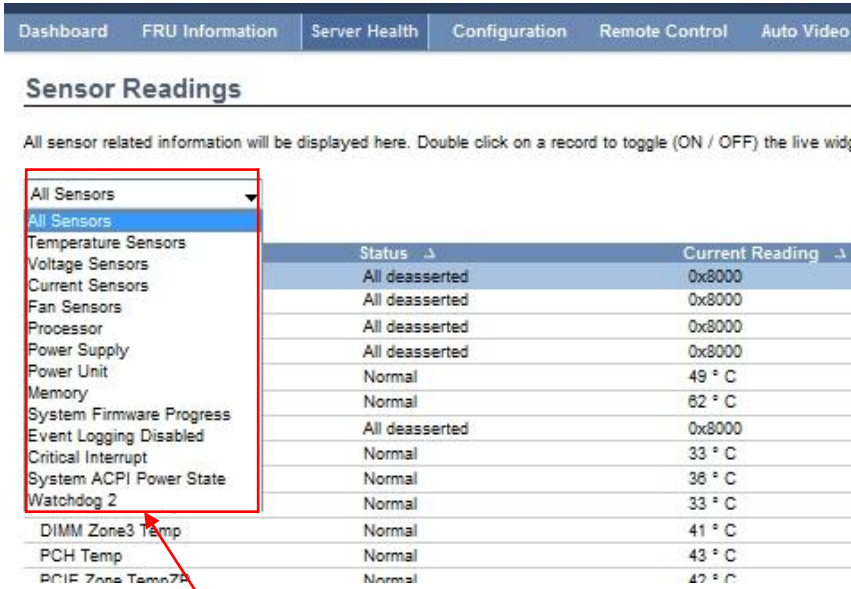
2.3 Server Health

This **Server Health** page allows you to view the Sensor Readings, Event Log, System and Audit Log.



2.3.1 Sensor Readings

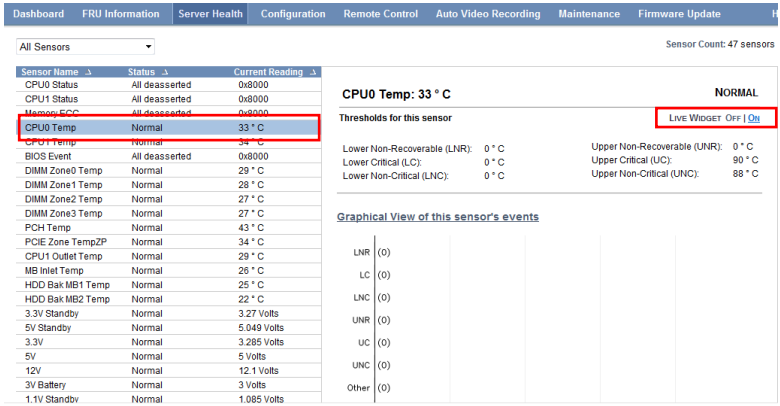
All sensor related information will be displayed here.



Sensors options:

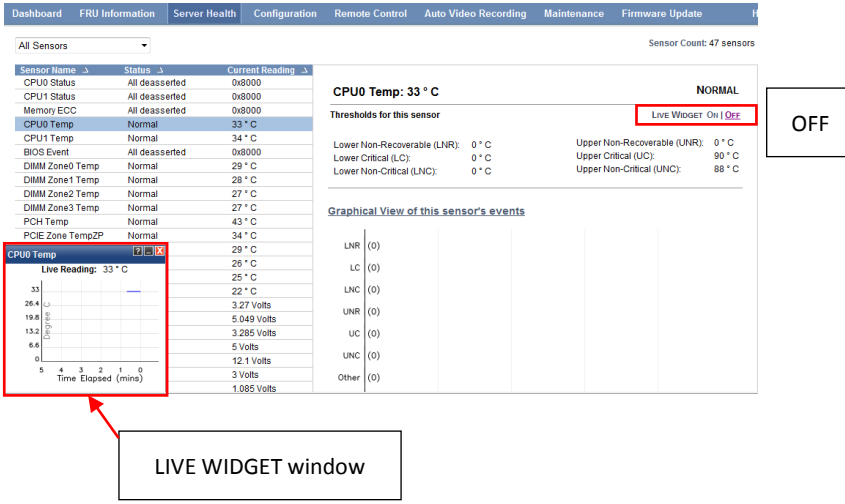
All Sensors
Temperature Sensors
Voltage Sensors
Current Sensors
Fan Sensors
Processor
Power Supply
Power Unit
Memory
System Firmware Progress
Event Logging Disabled
Critical Interrupt
System ACPI Power State
Watchdog 2

Double-click the specific sensor (such as CPU0 Temp) or click “**ON**” (at the right side) to pop a LIVE WIDGET window.



ON

The LIVE WIDGET window appears at the left bottom side, and you can click “**OFF**” (at the right side) to remove it.

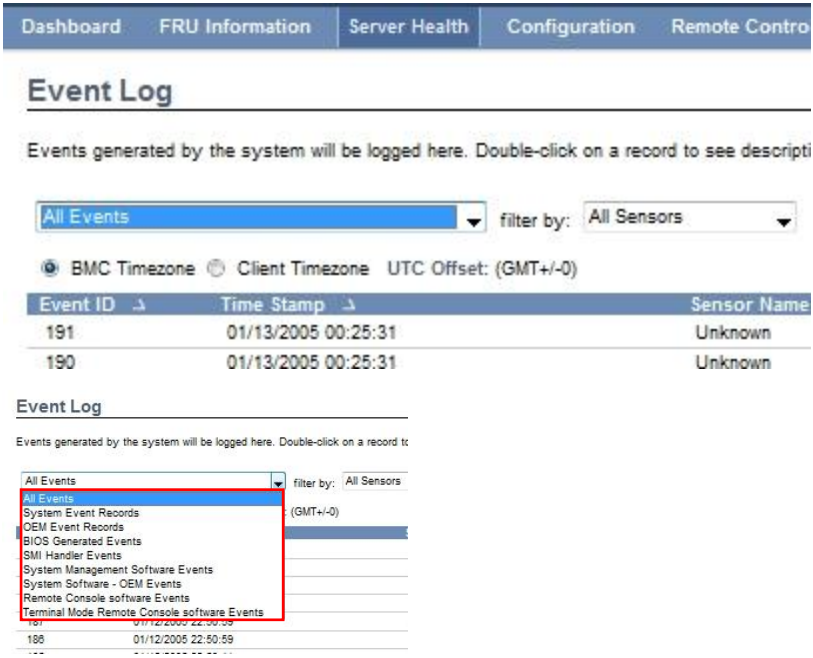


OFF

LIVE WIDGET window

2.3.2 Event Log

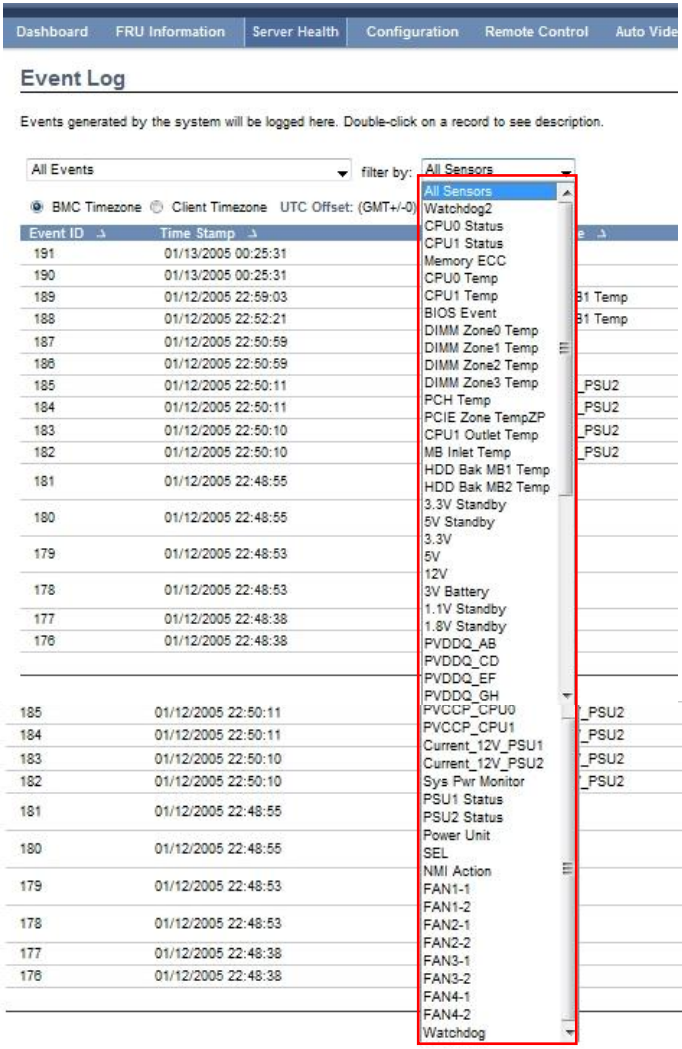
Events generated by the system will be logged here. Double-click on a record to see description.



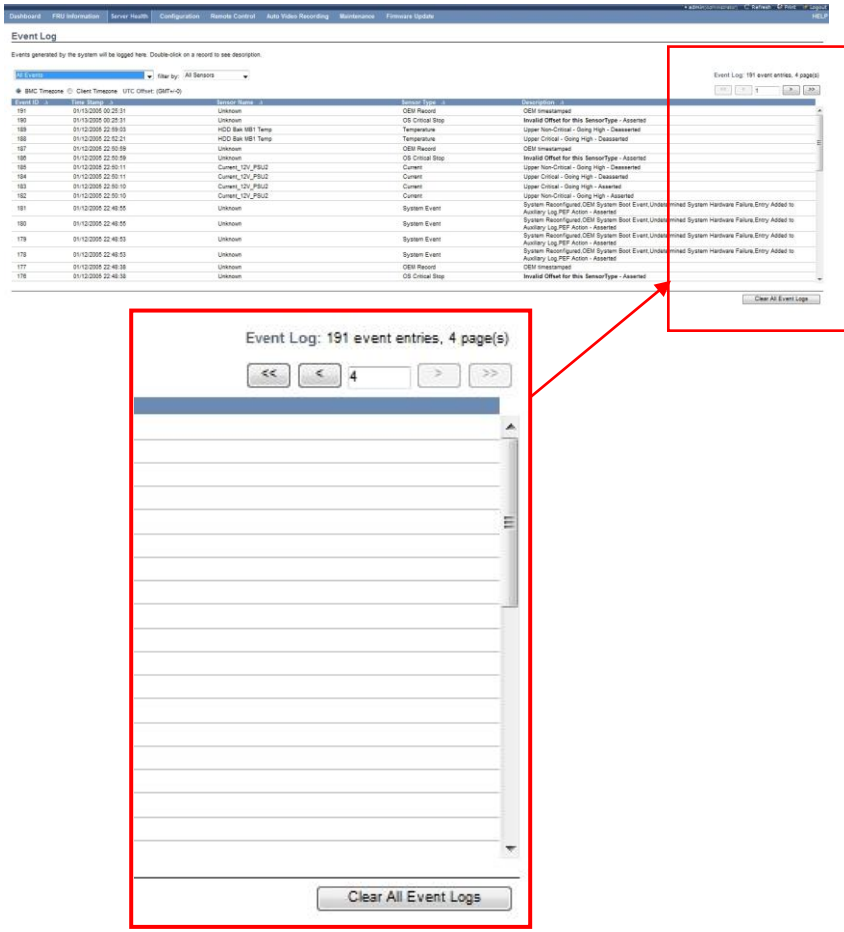
Events options:

All Events
System Event Records
OEM Event Records
BIOS Generated Events
SMI Handler Events
System Management Software Events
System Software – OEM Events
Remote Console Software Events
Terminal Mode Remote Console Software Events

The listing items can be filtered by different sensor items.



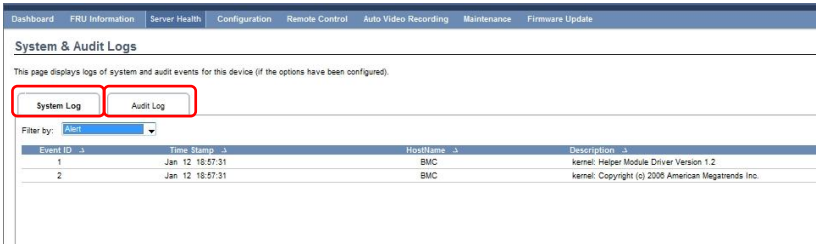
The display list may consist of many pages. You may click backward or forward button to check the rest of the pages. Or, click on the [Clear All Event Logs] to clear all of the logs.



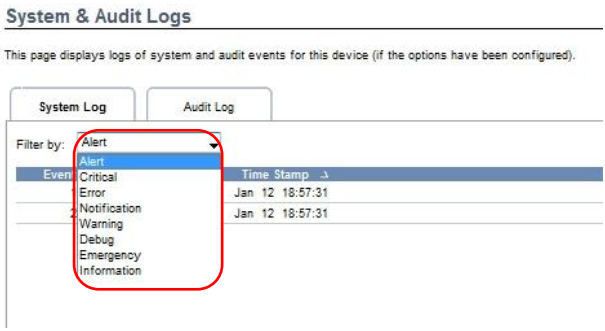
2.3.3 System and Audit Log

This page displays System Log and Audit Log. There are two tabs in the page.

Click on the specific tab to find the information you need.



The log list can be filtered by the following severity criteria.

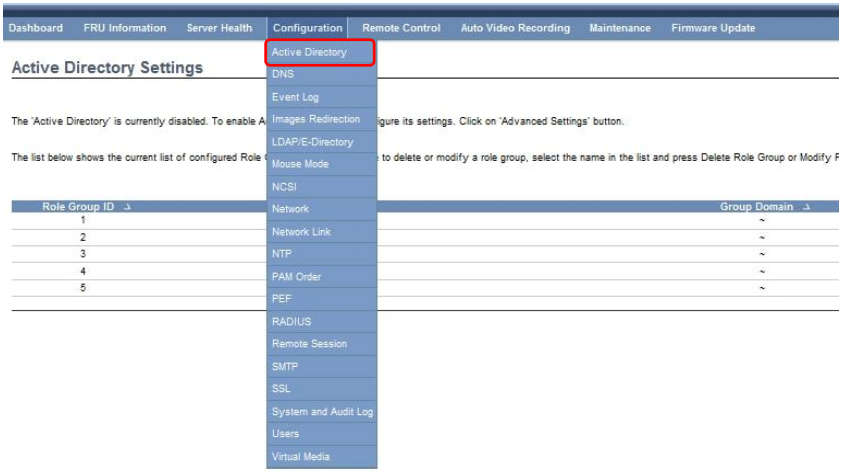


Severity:

Alert
Critical
Error
Notification
Warning
Debug
Emergency
Information

2.4 Configuration

The **Configuration** page allows you to configure settings, such as Active Directory, DNS, Event Log, Images Redirection, LDAP/E-Directory, Mouse Mode, NCSI, Network, Network Link, NTP, PAM Order, PEF, RADIUS, Remote Session, SMTP, SSL, System and Audit Log, Users and Virtual Media.

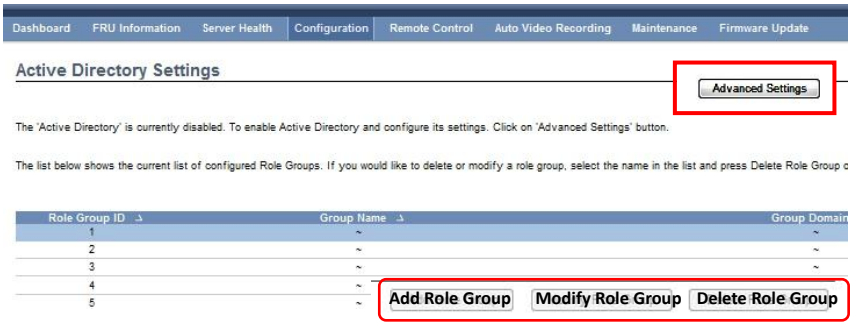


2.4.1 Active Directory

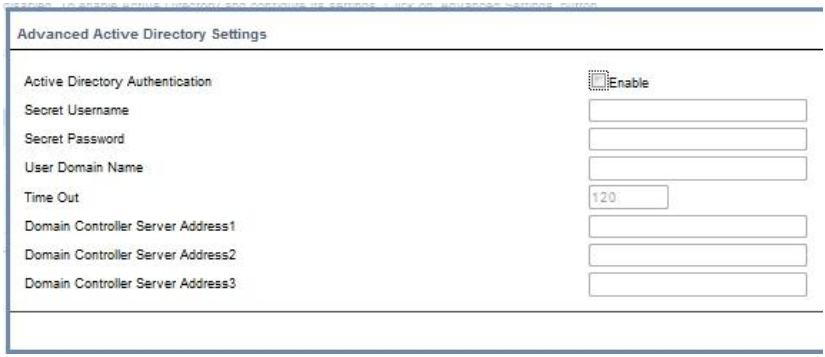
Active Directory is designed to handle a large number of Role Groups.

The Active Directory is currently disabled. To enable Active Directory and configure its settings. Click on [**Advanced Settings**] button.

The list below shows the current list of configured Role Groups. If you would like to delete or modify a role group, select the name in the list and press Delete Role Group or Modify Role Group. To add a new Role Group, select an blank slot and press Add Role Group.

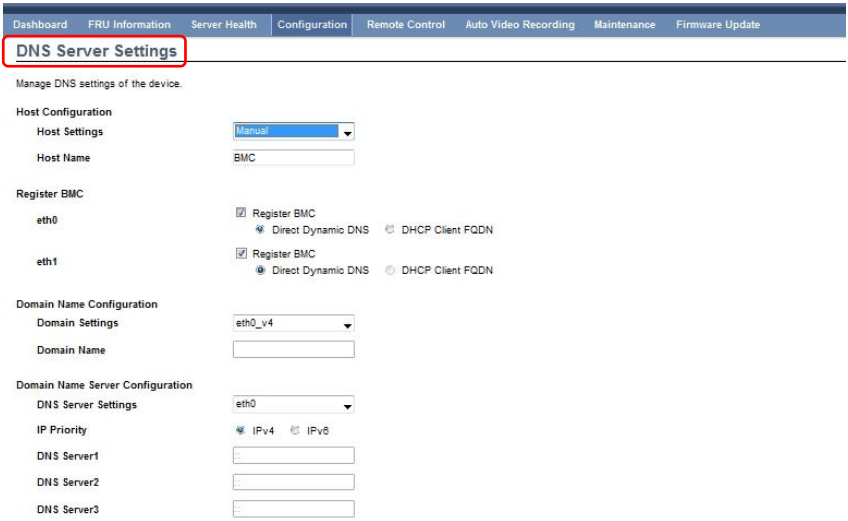


Advanced Settings

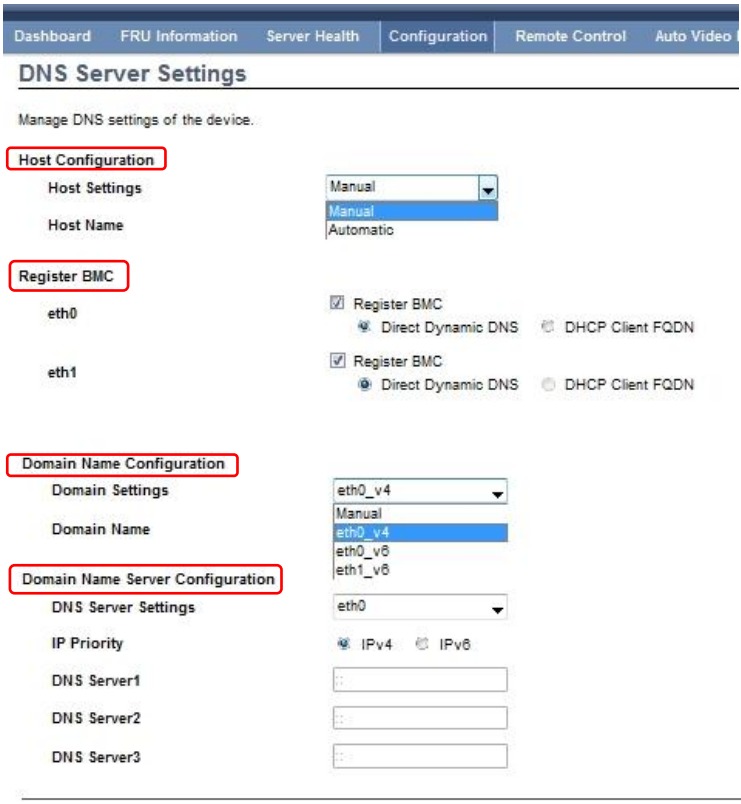


2.4.2 DNS

The **DNS Server Settings** page allows you to manage DNS settings of the device.



You may configure the Host Settings, Host Name, Register BMC, Domain Name and Domain Name Server.

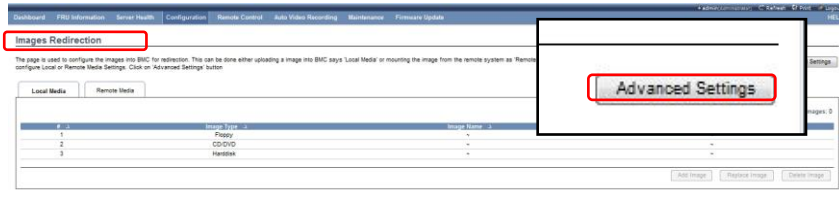


2.4.3 Event Log

This page is used to configure the System Event log information.

2.4.4 Images Redirection

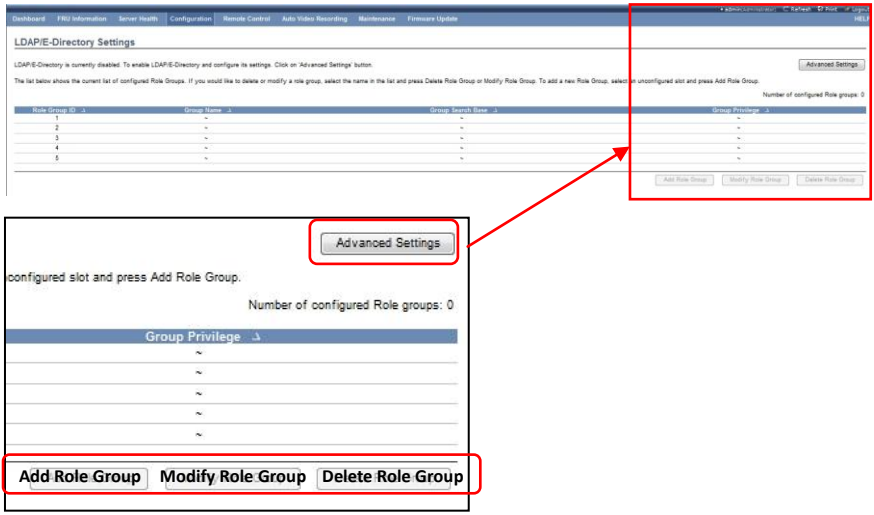
This page is used to configure the images into BMC for redirection. This can be done either uploading an image into BMC (Local Media) or mounting the image from the remote system (Remote Media). Local and Remote Media are currently disabled.



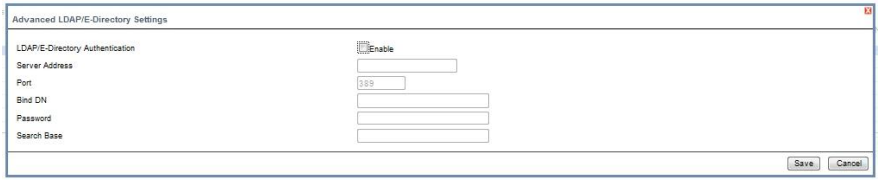
To configure Local or Remote Media Settings, click on "**Advanced Settings**" button.

2.4.5 LDAP/E-Directory Settings

The LDAP/E-Directory is currently disabled. To enable LDAP/E-Directory and configure its settings, click on "**Advanced Settings**". The list below shows the current list of configured Role Groups. If you would like to delete or modify a role group, select the name in the list and press **Delete Role Group** or **Modify Role Group**. To add a new Role Group, select a blank slot and press **Add Role Group**.

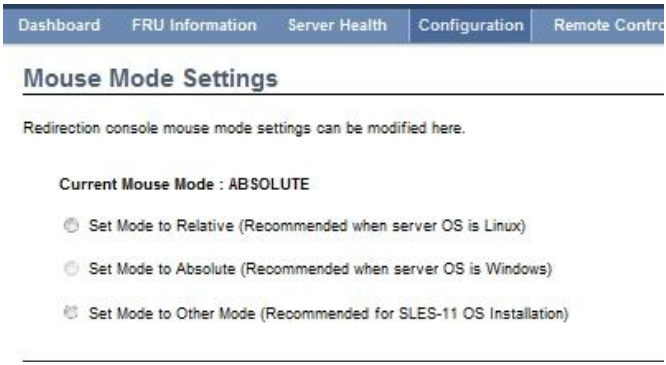


Advanced Settings



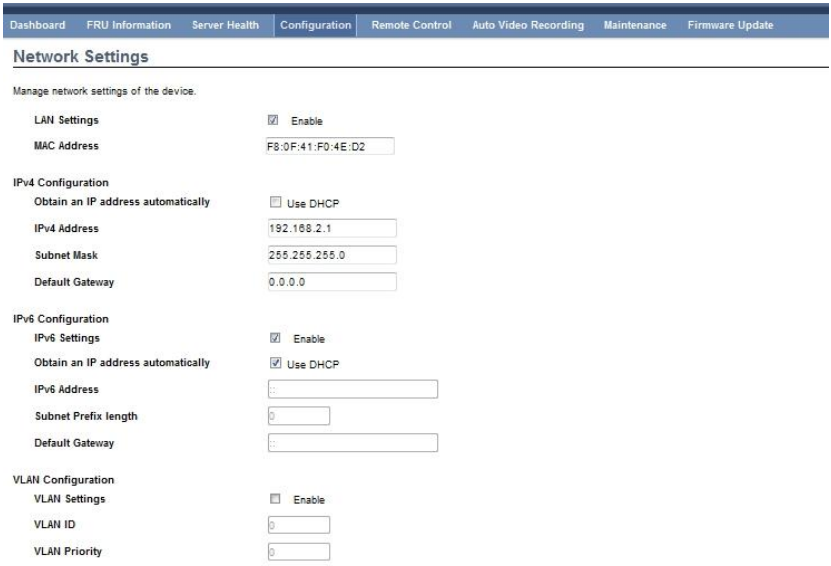
2.4.6 Mouse Mode

You may modify the Redirection console mouse mode settings in this page.



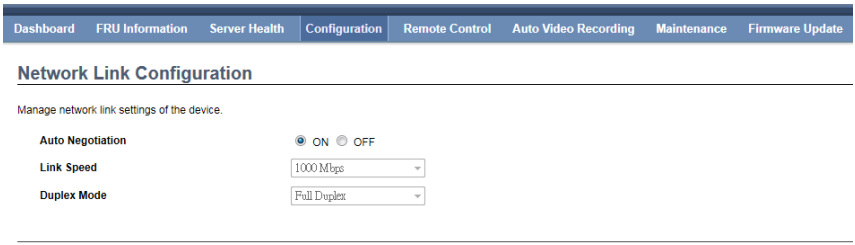
2.4.7 Network

There are various network settings in this page. You may adjust IPv4, IPv6 and VLAN Configuration.



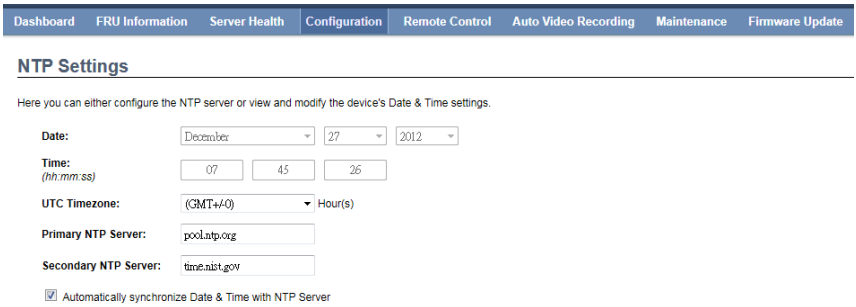
2.4.8 Network Link

In this page, you may adjust the network link settings of LAN interface, Auto Negotiation, Link Speed and Duplex Mode setting.



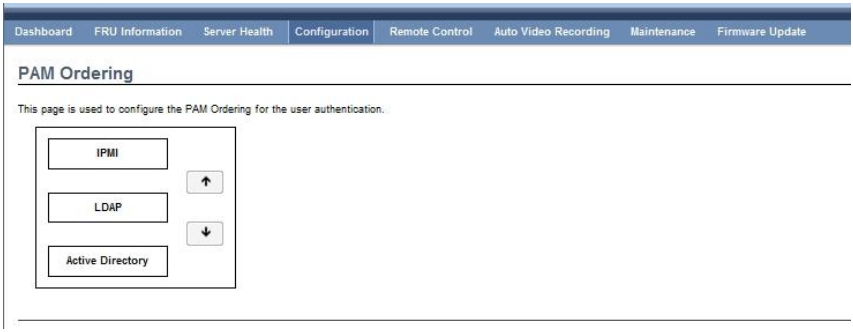
2.4.9 NTP

In this page, you may configure the NTP server, view and modify the Date & Time settings of NTP for BMC.



2.4.10 PAM Order

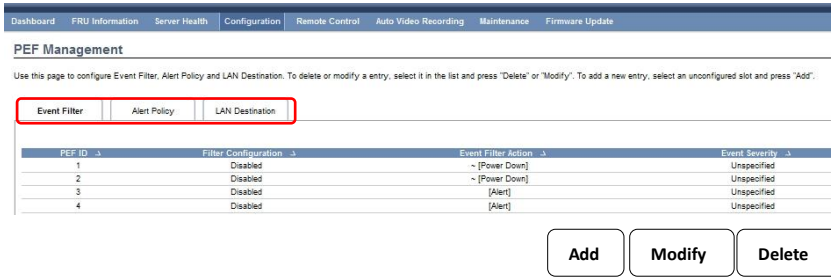
This page is used to configure the PAM Ordering for the user authentication.



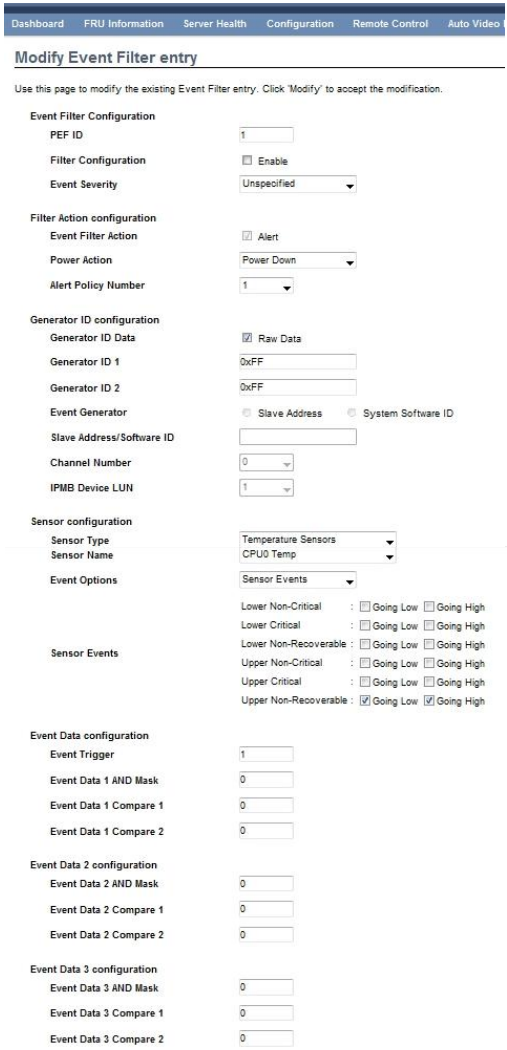
2.4.11 PEF

A platform event is defined as an event that is originated directly from platform firmware (BIOS) or platform hardware (ASIC, chip set, or microcontroller) independently of the state of the operating system or system management hardware.

Use this page to configure Event Filter, Alert Policy and LAN Destination. To delete or modify a entry, select it in the list and press “**Delete**” or “**Modify**”. To add a new entry, select an blank slot and press “**Add**”.

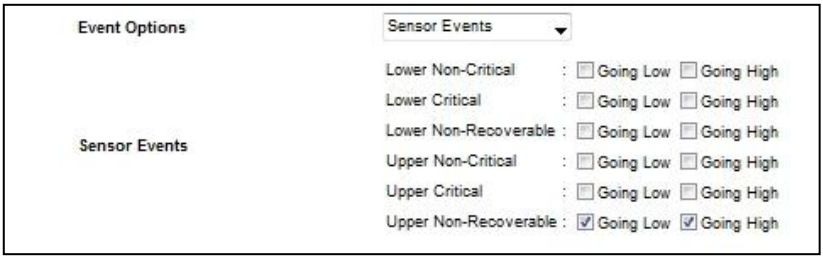


Use this page to modify the existing Event Filter entry. Click "**Modify**" to accept the modification.



Sensor Events:

There are different assertion condition levels for different bit numbers. The abreviation here represents different levels of the condition.

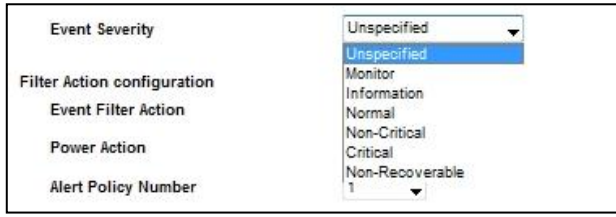


Abreviation	Full	Severity	Meaning
LNC	Lower Non-Critical		Similar to a Warning message
LC	Lower Critical		Worse than LNC
UNC	Upper Non-Critical		Similar to a Warning message
UC	Upper Critical		Worse than UNC
LNR	Lower Non-Recoverable		Unknown reason and untraceable and shows no parameter at all
UNR	Upper Non-Recoverable		Unknown reason and untraceable and shows no parameter at all

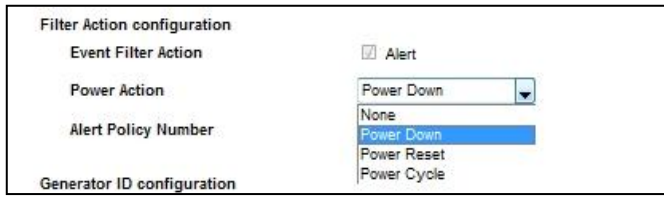
For example,
If you choose LNC going low for threshold for Fan 1, and when the figure of Fan 1 is going lower than the default parameter, then it will trigger the event.

Event Filter Configuration:

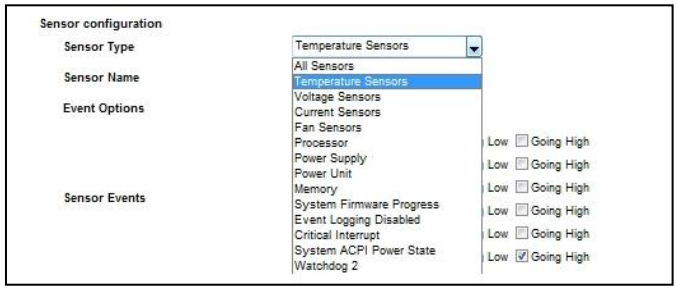
The **Event Severity** defines the severity of the event.



The **Power Action** defines the action of the Power Supply.

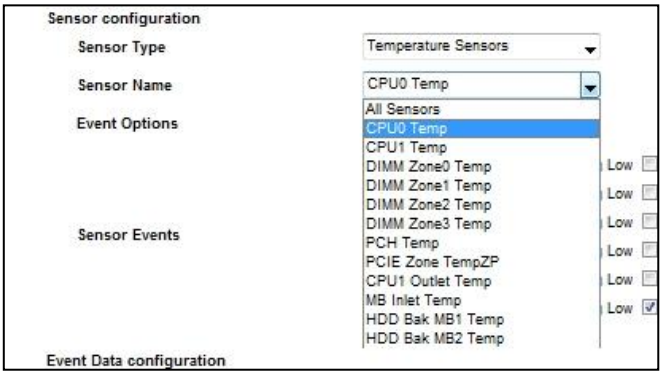


The **Sensor Type** is one of the most important factors to your configuration. Any unusual figures of these selected sensors will trigger the Event Filter Action.

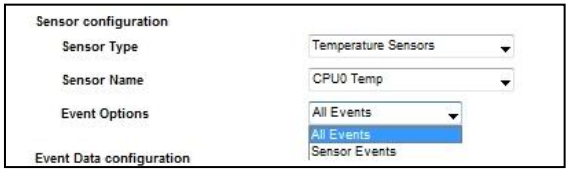


The **Sensor Name** varies to the selection of the Sensor Type.

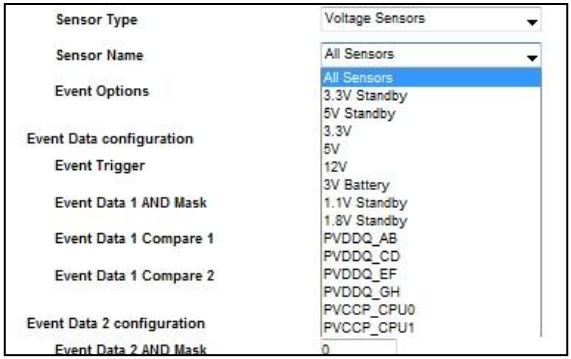
If we chose Temperature Sensors as our Sensor Type, the Sensor Name will appear in the drop down list accordingly as follow.



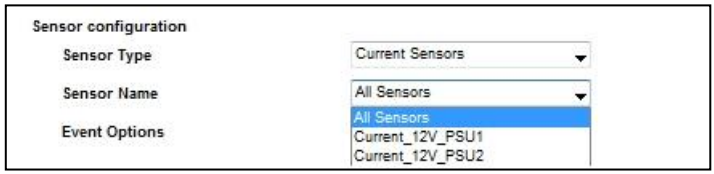
If we chose **CPU0 Temp** as our Sensor Name, the Event Options will appear in the drop down list accordingly as follow.



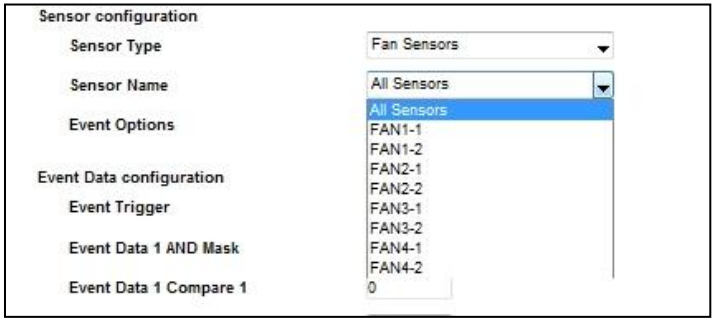
The drop down list of **Voltage Sensors** as follow.



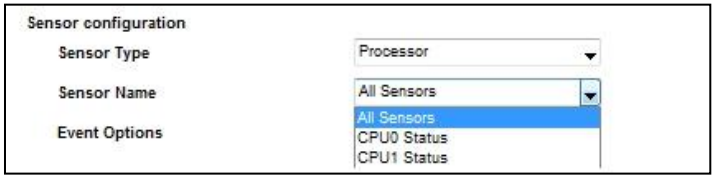
The drop down list of **Current Sensors** as follow.



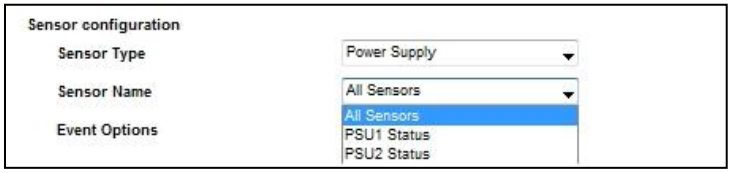
The drop down list of **Fan Sensors** as follow.



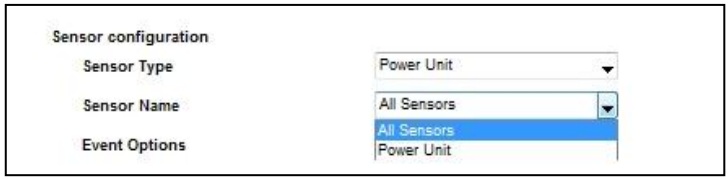
The drop down list of **Processor** as follow.



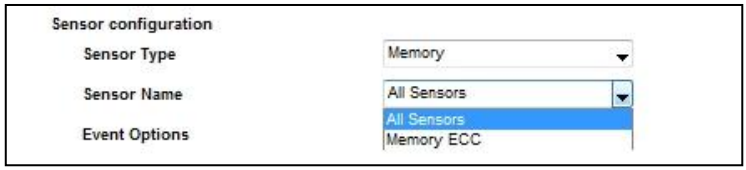
The drop down list of **Power Supply** as follow.



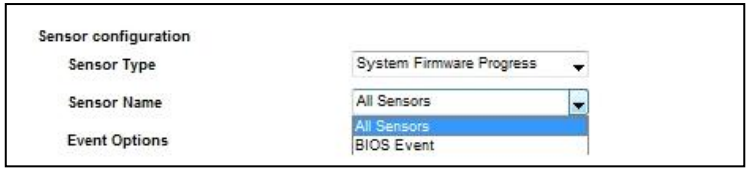
The drop down list of **Power Unit** as follow.



The drop down list of **Memory** as follow.

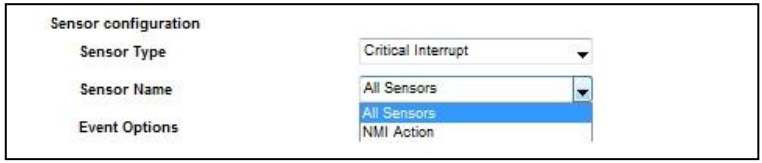


The drop down list of **System Firmware Progress** as follow.

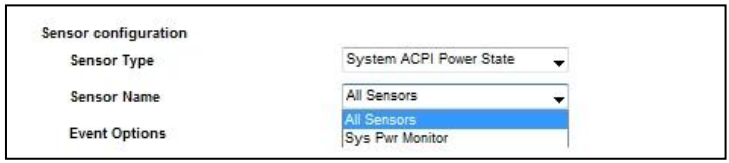


The drop down list of **Event Logging Disabled** as follow.

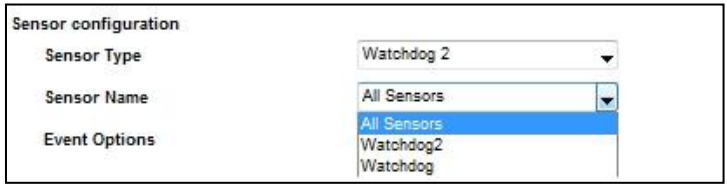
The drop down list of **Critical Interrupt** as follow.



The drop down list of **System ACPI Power State** as follow.



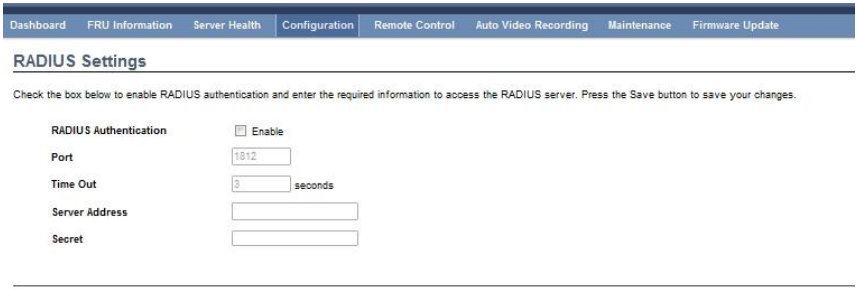
The drop down list of **Watchdog 2** as follow.



After all the settings are configured, you may click **Save** or **Cancel** to return to the main page of PEF.

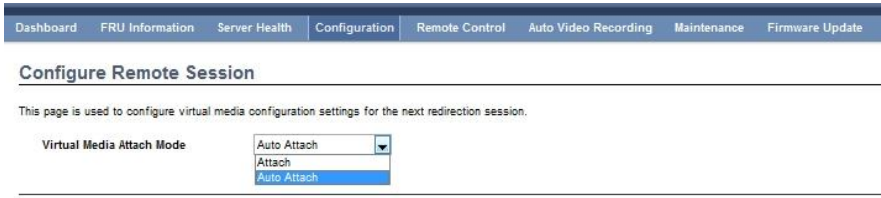
2.4.12 Radius

Check the box below to enable RADIUS authentication and enter the required information to access the RADIUS server. Press the “Save” button to save your changes.



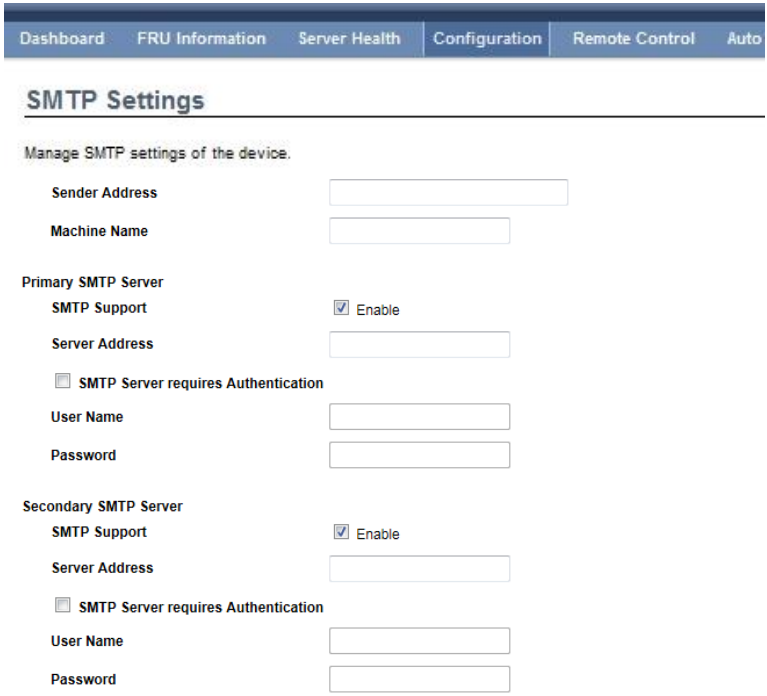
2.4.13 Remote Session

This page is used to configure virtual media configuration settings for the next redirection session.



2.4.14 SMTP

This page is used for managing SMTP settings of the device.



2.4.15 SSL

SSL provides communication security over the Internet. It is an entity that issues digital certificates. The digital certificate certifies the ownership of a public key by the named subject of the certificate. It is a trusted third party that is trusted by both the subject (owner) of the certificate and the party relying upon the certificate.

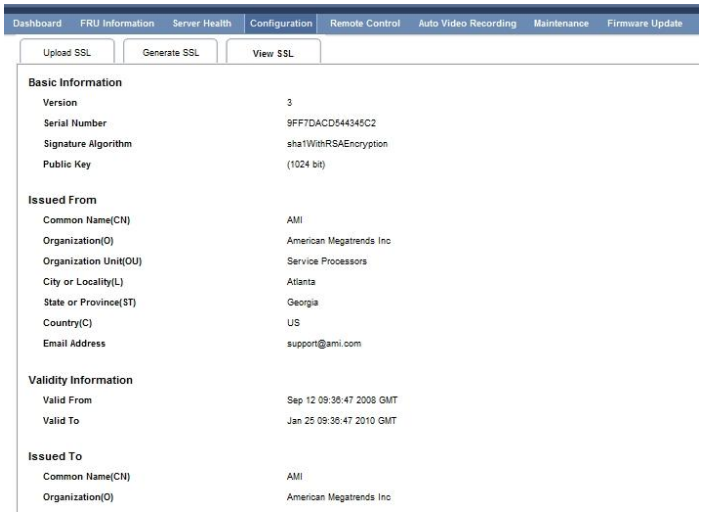
There are 3 tabs here.

- Upload SSL
- Generate SSL
- View SSL

If you choose to generate a new SSL, click on the Generate SSL tab, in which you will fill in the details such as Common Name, Organization Name, etc., in order to create a new one. After that, click the **Generate** button.

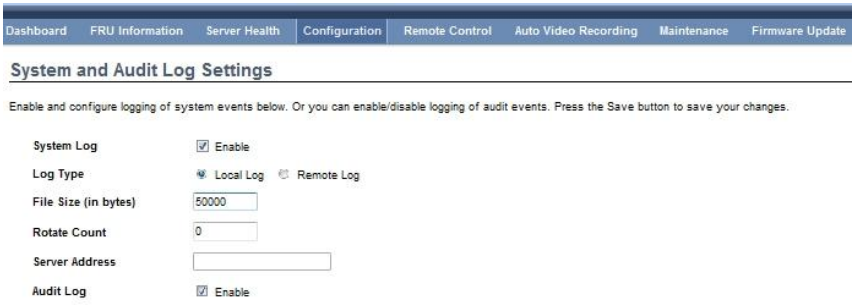

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto
SSL Certificate Configuration
This page is used to configure SSL certificate into the BMC. Using this, the device can be accessed in a
option is used to view the uploaded SSL certificate in readable format.
Upload SSL
Generate SSL
View SSL
Common Name(CN)
Organization(O)
Organization Unit(OU)
City or Locality(L)
State or Province(ST)
Country(C)
Email Address
Valid for
days
Key Length
512
bits
Generate

View SSL:

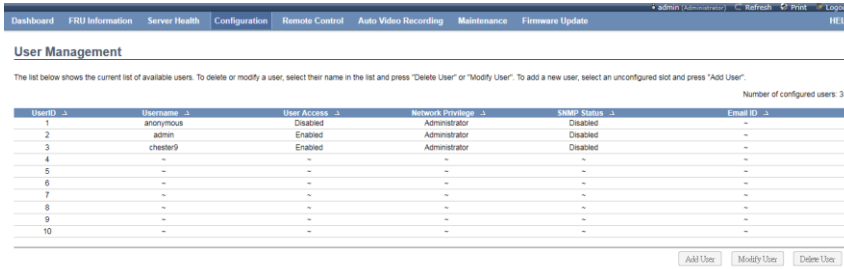

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update
Upload SSL
Generate SSL
View SSL
Basic Information
Version 3
Serial Number 9FF7DACD544345C2
Signature Algorithm sha1WithRSAEncryption
Public Key (1024 bit)
Issued From
Common Name(CN) AMI
Organization(O) American Megatrends Inc
Organization Unit(OU) Service Processors
City or Locality(L) Atlanta
State or Province(ST) Georgia
Country(C) US
Email Address support@ami.com
Validity Information
Valid From Sep 12 09:36:47 2008 GMT
Valid To Jan 25 09:36:47 2010 GMT
Issued To
Common Name(CN) AMI
Organization(O) American Megatrends Inc

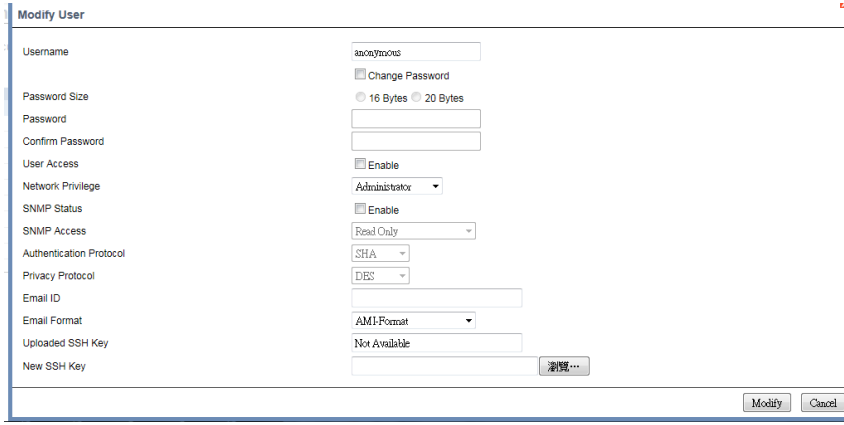
2.4.16 System and Audit Log Settings

Use this page to enable and configure logging of system events below. Or, you can enable/disable logging of audit events. Press the "**Save**" button to save your changes.



2.4.17 Users


admin (Administrator)
Refresh
Print
Logout
Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update
HELP
User Management
The list below shows the current list of available users. To delete or modify a user, select their name in the list and press "Delete User" or "Modify User". To add a new user, select an unconfigured slot and press "Add User".
Number of configured users: 3
UserID
Username
User Access
Network Privilege
SNMP Status
Email ID
1 anonymous Disabled Administrator Disabled ~
2 admin Enabled Administrator Disabled ~
3 chester9 Enabled Administrator Disabled ~
4 ~ ~ ~ ~ ~
5 ~ ~ ~ ~ ~
6 ~ ~ ~ ~ ~
7 ~ ~ ~ ~ ~
8 ~ ~ ~ ~ ~
9 ~ ~ ~ ~ ~
10 ~ ~ ~ ~ ~
Add User
Modify User
Delete User

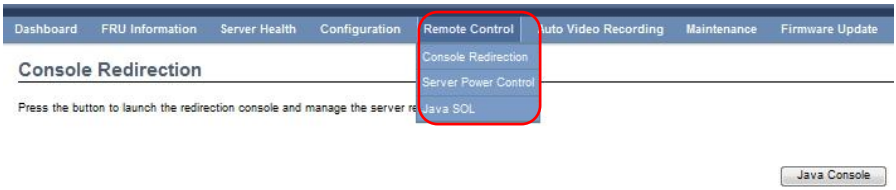

Modify User
Username
anonymous
Change Password
Password Size
16 Bytes
20 Bytes
Password
Confirm Password
User Access
Enable
Network Privilege
Administrator
SNMP Status
Enable
SNMP Access
Read Only
Authentication Protocol
SHA
Privacy Protocol
DES
Email ID
Email Format
AMI-Format
Uploaded SSH Key
Not Available
New SSH Key
瀏覽...
Modify
Cancel

2.4.18 Virtual Media

The following option allows to configure virtual media devices.

2.5 Remote Control

The **Remote Control** page allows you to configure settings, such as Console Redirection, Server Power Control and Java SOL.



2.5.1 Console Redirection

You may press the "**Java Console**" button to launch the redirection console and manage the server remotely.

2.5.2 Server Power Control

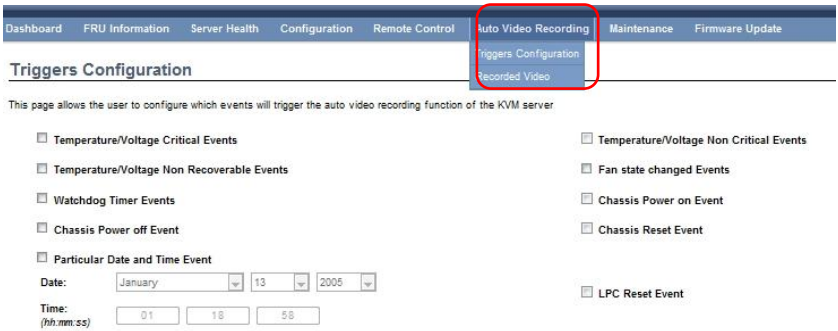
The current server power status is shown below. To perform a power control operation, select one of the options below and press "**Perform Action**".

2.5.3 Java SOL

Press the button to launch the Java SOL.

2.6 Auto Video Recording

The **Auto Video Recording** page allows you to configure settings, such as Triggers Configuration and Recorded Video.



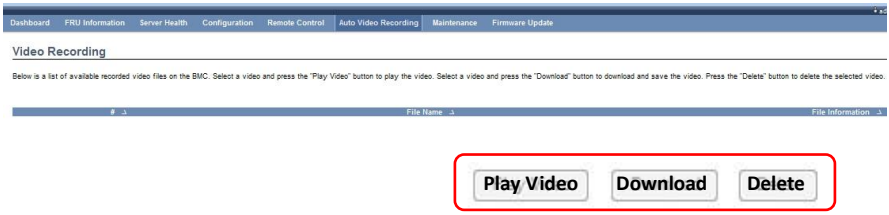
2.6.1 Triggers Configuration

This page allows the user to configure which events will trigger the auto recording function of the KVM server.

2.6.2 Recorded Video

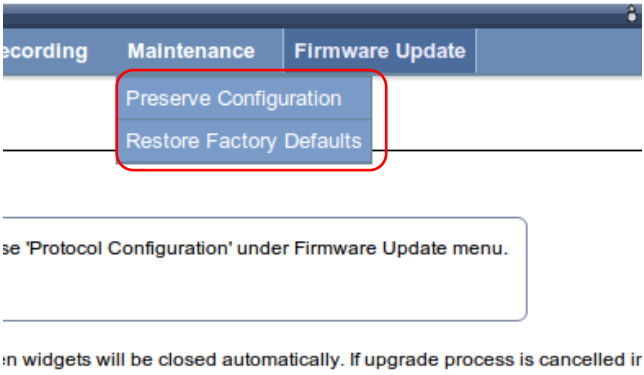
Below shows the list of available recorded video files on the BMC. Select a video and press “Play Video” button to play the video. Select a video and press the “Download” button to download and save the video. Press the “Delete” button to delete the selected video.

(note: the number of available video files are “0”, therefore no video can be selected)



2.7 Maintenance

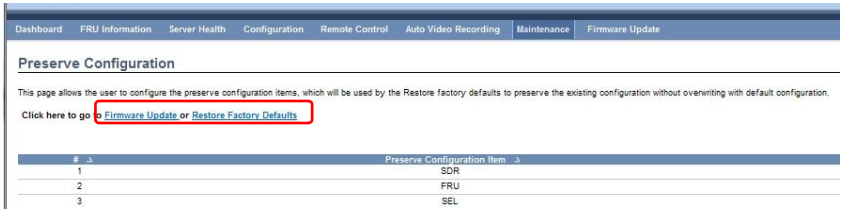
The **Maintenance** page allows you to configure settings, such as Preserve Configuration, Restore Factory Defaults and System Administrator.



2.7.1 Preserve Configuration

This page allows the user to configure items, which will be used by the Restore Factory Defaults to preserve the existing configuration without overwriting with default configuration.

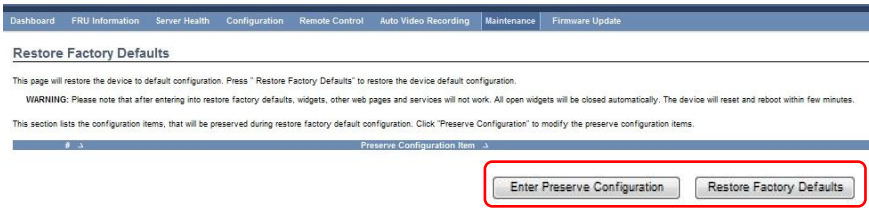
This page allows you to go to **Firmware Update** or **Restore Factory Defaults**.



2.7.2 Restore Factory Defaults

This page will restore the device to default configuration. Press "**Restore Factory Defaults**" to restore the device default configuration.

This section lists the configuration items that will be preserved during restore factory default configuration. Click "**Preserve Configuration**" to modify the preserve configuration items.



Warning: Please be noted that after entering into factory defaults, some functions like widgets, other web pages and services will not work. All open widgets will be closed automatically. The device will reset and reboot within few minutes.

2.8 Firmware Update

The **Firmware Update** page allows you to configure and update Firmware.

Update firmware of the device. Press "**Enter Update Mode**" to put the device in update mode.

All configuration items below will be preserved by default during a restore factory default operation. Click "**Enter Preserve Configuration**" to modify the Preserve Status settings.